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ABSTRACT

Reactor device (R) for carrying out chemical reactions requiring heat exchange, ~~said~~ the reactor, ~~which~~ is elongate along an axis (XX'), ~~having and has~~, at a first end, at least one ~~means orifice~~ (16) for supplying at least one reactant ~~and~~, at an opposite end, at least one ~~means orifice~~ (18) for evacuating the effluents formed, ~~and having~~ a plurality of heat ~~exchange means~~ exchangers (12) separated by at least one internal partition (14) and passages for circulating the reactant or reactants and/or effluents, provided between ~~said the~~ the heat ~~exchange means~~ exchangers and ~~said the~~ the internal partitions.

~~According to the invention,~~ The reactor (R) has at least one enclosure (10) made of refractory material providing heat insulation and containing ~~a heat exchange means~~ exchangers (12) and internal partitions (14), ~~and said~~ The enclosure is contained in an envelope (20) to contain the reactant or reactants and/or effluents circulating inside ~~said the~~ the reactor.